

WHAT IS CLAIMED IS:

1. Digital recording/reproducing apparatus for surveillance, which records pictures shot by a plurality of monitoring cameras installed in monitoring areas, and reproduces recorded pictures or live pictures shot by said monitoring cameras, further comprising:

relevant monitoring camera information, recording condition information and display condition information for each monitoring areas, and

10        said shot pictures are recorded and said live pictures are displayed based on said relevant camera information, said recording condition information and said display condition information.

15        2. The digital video recording/reproducing apparatus according to claim 1, wherein the display screen is split according to the relevant monitoring camera information in the specified monitoring area and displays said corresponding live picture when a monitoring area to be displayed is specified.

20

3. The digital video recording/reproducing apparatus according to claim 1, the display screen is split according to the relevant monitoring camera information in each monitoring area and displays said corresponding live picture as well as 25 switches between split screens per monitoring area according

to said display condition information.

4. The digital video recording/reproducing apparatus according to claim 3, the switching display timing per monitoring  
5 area is switched by the operation time.

5. The digital video recording/reproducing apparatus according to claim 1, displayed picture is switched to said live  
picture corresponding to the relevant monitoring camera  
10 information in the specified monitoring area when a monitoring area to be displayed is specified.

6. The digital video recording/reproducing apparatus according to claim 1, the display screen is split according to  
15 the number of said monitoring areas, and said live picture corresponding to the relevant monitoring camera information is displayed in the specified monitoring area on each split screen according to said display condition information.

20 7. A digital video recording/reproducing apparatus for surveillance, which records pictures shot by monitoring cameras installed in monitoring areas under recording conditions set per said monitoring area, and reproduces said recorded pictures, characterized in that  
25 shooting time information is recorded in correspondence

with the recording of said video, and that

    said monitoring digital video recording/reproducing apparatus searches and reproduces recorded videos based on said shooting time information and monitoring area information.

5

8.     The digital video recording/reproducing apparatus according to claim 7, wherein said recorded video is reproduced independently per said monitoring area.

10       9.     The digital video recording/reproducing apparatus according to claim 8, wherein said recorded video is reproduced on the screens split per said monitoring area.

15       10.    A digital video recording/reproducing apparatus for surveillance, which records pictures shot by monitoring cameras installed in monitoring areas under recording conditions set per said monitoring area, and reproduces said recorded pictures or displays live pictures shot by said monitoring cameras, comprising

20           means for inputting one of more alarm signals and means for retaining the relationship between said alarm signals and said monitoring areas or said monitoring cameras, wherein the recording conditions set per said monitoring area are changed as well as changes display conditions for live  
25          pictures when said alarm signals are input.

11. The digital video recording/reproducing apparatus according to claim 10, further comprising

5 motion detection means for detecting the motion of an subject based on the videos shot by monitoring cameras corresponding to said input alarm signals,

wherein recorded pictures is selected based on the information on the correspondence between the detection results of said motion detection means and the monitoring cameras.

10

12. The digital video recording/reproducing apparatus according to claim 10 or 11, wherein shooting time information is recorded in correspondence with the recording of said video, the input times of said alarm signals per alarm signal is retained 15 and a corresponding picture is searched and reproduced by using the alarm signal information as a key.

20 13. The digital video recording/reproducing apparatus according to claim 12, pictures of corresponding monitoring areas or from monitoring cameras recorded at the input times of said alarms signals are searched, and the pictures thus searched are reproduced in the order to input time.

25 14. A digital video recording/reproducing apparatus for surveillance which records pictures shot by monitoring

00000000000000000000000000000000

cameras installed in monitoring areas under recording conditions set per said monitoring area, and reproduces said recorded pictures or displays live pictures shot by said monitoring cameras, comprising:

5 means for setting the operation times of said monitoring cameras per said monitoring area and

means for turning off the power to said monitoring cameras except during the operation times.

10 15. The digital video recording/reproducing apparatus according to any of the preceding claims, further comprising:  
means for displaying the state of said monitoring cameras.

15 16. The digital video recording/reproducing apparatus according to any of the preceding claims, further comprising means for simultaneously displaying the live picture and reproduced video of said same monitoring camera via screen splitting of said display means.

20 17. The digital video recording/reproducing apparatus according to any of the preceding claims, further comprising:  
backup means for automatically or manually making a backup copy of a recorded picture of a specific monitoring area on an external recording medium.

TOKUYAMA 23271860

18. The digital video recording/reproducing apparatus  
according to any of the preceding claims, further comprising  
means for storing a recorded picture from a specific monitoring  
camera for a long time, and means for comparing the stored picture  
5 with the picture under shooting.

19. The digital video recording/reproducing apparatus  
according to any of the preceding claims, said preset recording  
conditions for the corresponding monitoring area are changed  
10 when a fault in the video input from said monitoring cameras  
has continued a certain period.

20. The digital video recording/reproducing apparatus  
according to any of claims 1 through 6, wherein pictures shot  
15 by other monitoring cameras installed in said monitoring area  
is input without livepicturedisplay, and recorded with a special  
identifier appended.

21. The digital video recording/reproducing apparatus  
20 according to any of claims 10 through 13, further comprising  
means for totaling said alarm count per said monitoring area.